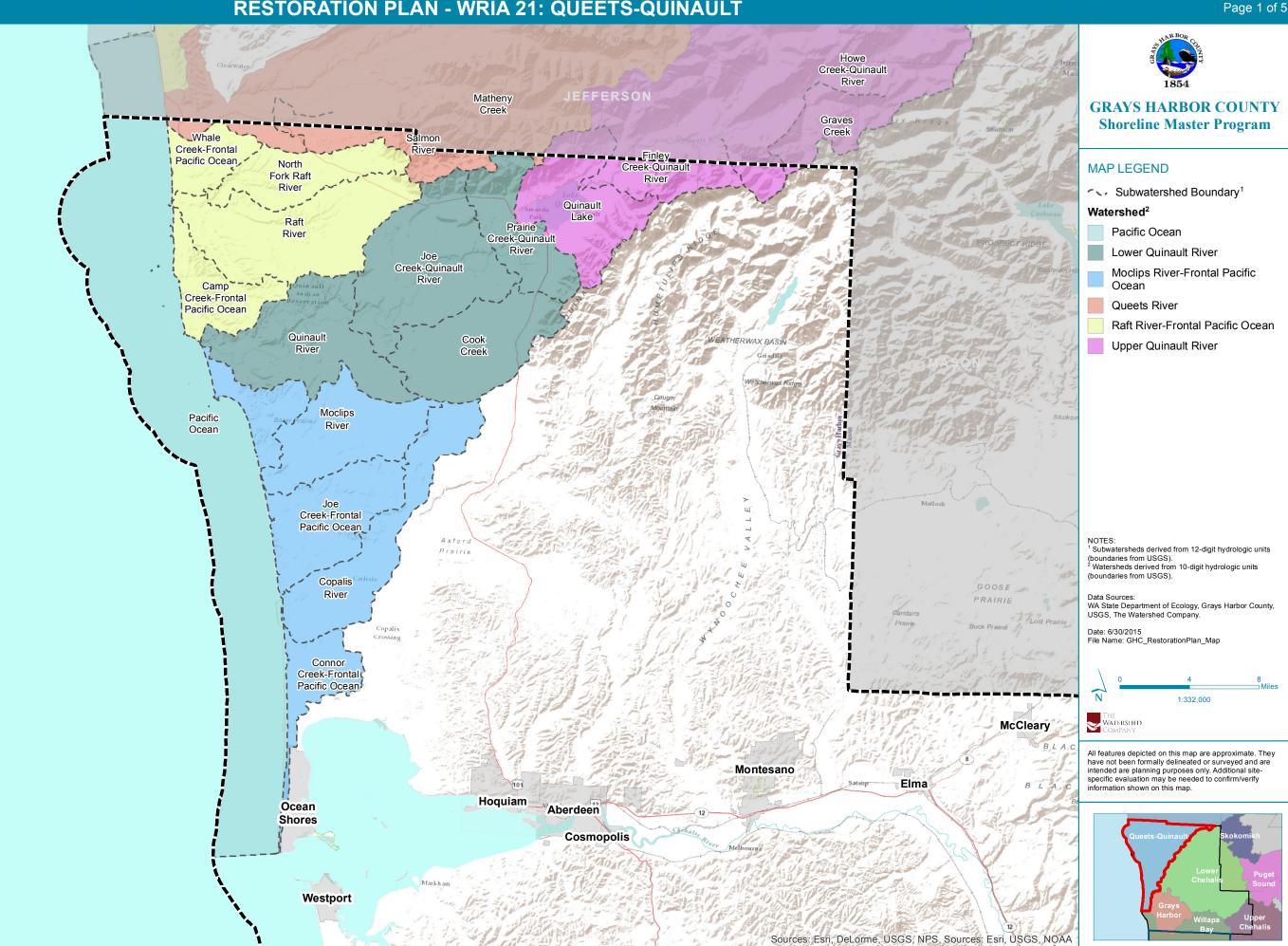
RESTORATION PLAN - WRIA 21: QUEETS-QUINAULT

RESTORATION ISSUES QUEETS-QUINAULT SUBBASIN

Riverine

Changes in sediment transport and hydrology associated with receding

- Fish passage
- Forest road impacts to hydrology
- Off-channel habitat connectivity
- Overwater structures in littoral habitat of Lake Quinault:
- Reduced nutrient levels related to reduced salmon returns
- Reduction of mature forest and large wood debris (LWD) in the Upper Quinault floodplain and river channels
- Sedimentation from logging roads and past forestry practices
- Simplified channels, disconnected floodplains, and degraded riparian conditions.

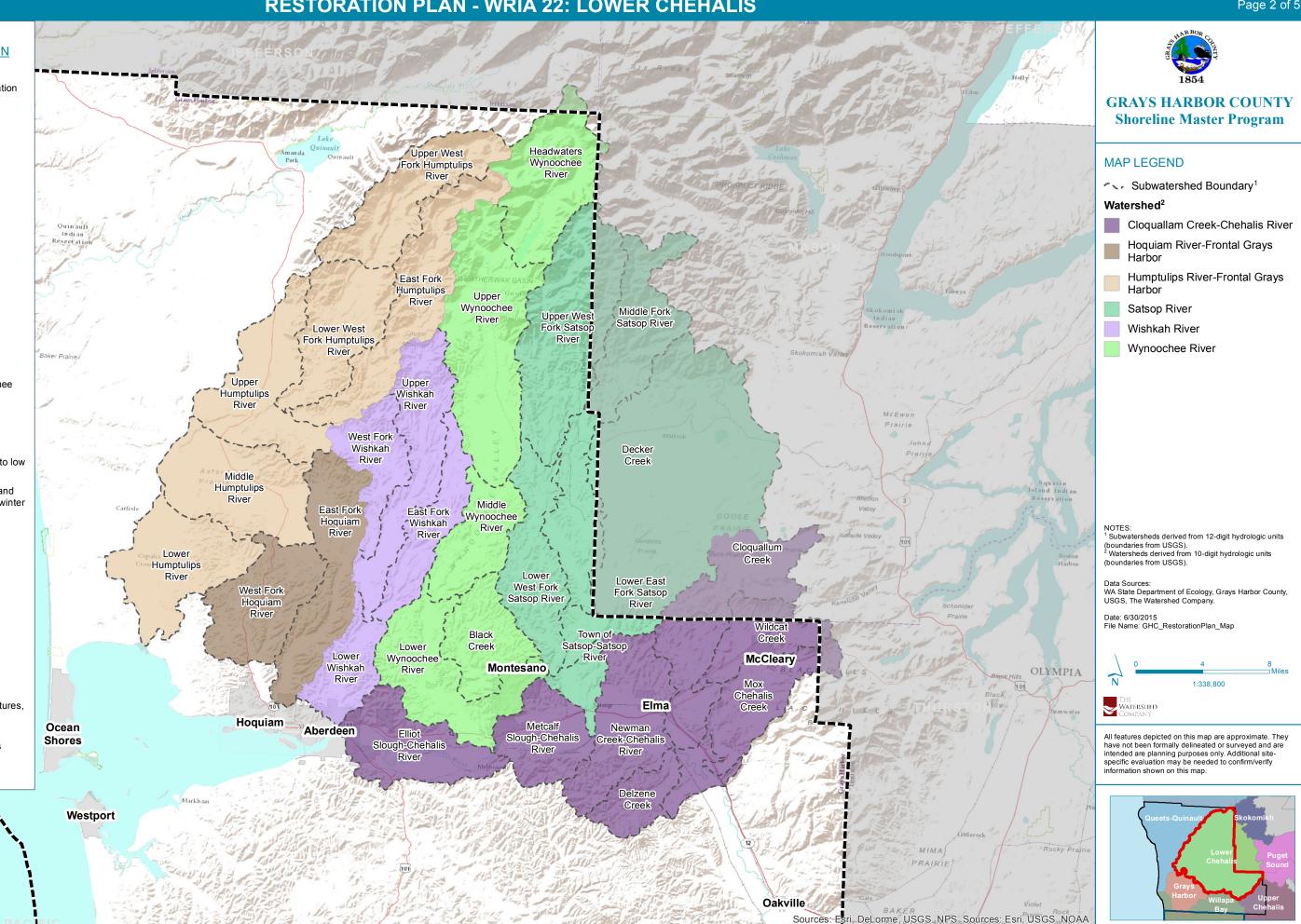


RESTORATION PLAN - WRIA 22: LOWER CHEHALIS

RESTORATION ISSUES LOWER CHEHALIS SUBBASIN

Riverine

- Channel incision and channelization limits floodplain functions
- Channel migration is limited
- Degraded riparian conditions, particularly in lower 22 miles
- Degraded riparian corridor
- Degraded riparian corridors
- Degraded riparian corridors
- Disconnected floodplain
- Excess fine sediment
- Excess fine sediment
- Excess fine sediment delivery
- Excess sediment
- Fine sediment
- Fish passage
- Fish passage barriers
- Fish passage barriers- Wynoochee dam and road crossings
- Floodplain connectivity
- Floodplain connectivity in lower watershed
- High water temperatures in mid to low flow months
- Hydrograph altered with higher and more widely fluctuating flows in winter
- Impaired channel migration and floodplain storage
- Limited floodplain and estuarine connectivity
- Low base flows
- Low base flows
- Low levels of LWD
- Reduced LWD
- Variable densities of LWD
- Water flow impaired in lower mainstem and WF Wishkah
- Water quality (elevated temperatures, carbaryl in estuarine areas)
- Water quality- elevated water temperature and sediment loads
- Water quality- high levels of fine sediment



RESTORATION PLAN - WRIA 22: GRAYS HARBOR RESTORATION ISSUES GRAYS HARBOR SUBBASIN Copalis Crossing Estuarine ■ Fish passage

Riverine

Fish passage

Degraded riparian conditions

Sedimentation (extent of concern is

Water quality impairments (fecal

coliform, sediment, and temperature)

Floodplain connectivity

Water flow processes

Low levels of LWD

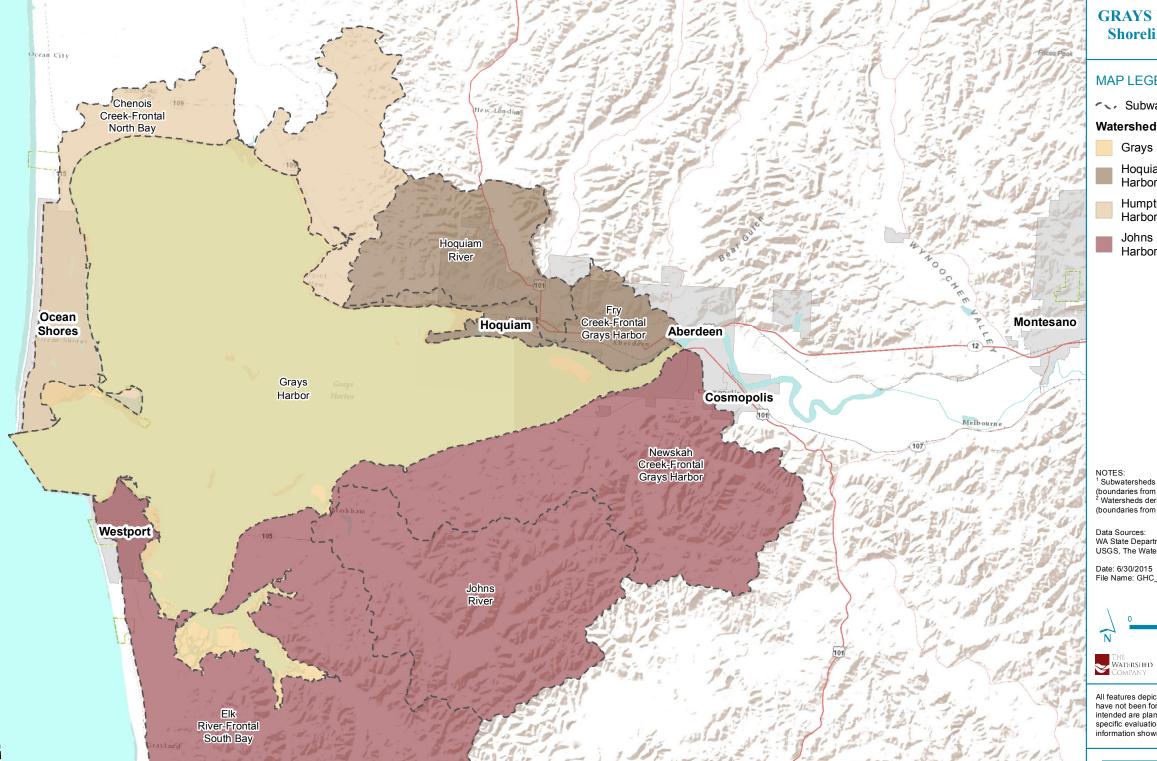
GRAYS HARBOR COUNTY Shoreline Master Program

MAP LEGEND

Subwatershed Boundary¹

Watershed²

- Grays Harbor
- Hoquiam River-Frontal Grays Harbor
- Harbor
- Johns River_Frontal Grays



All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended are planning purposes only. Additional site-specific evaluation may be needed to confirm/verify



Sources: Esri, DeLorme, USGS, NPS, Sources: Esri, USGS, NOAA